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1 [Type-base flow analysis: from polymorphic subtyping to CFL-reachability](#)

Jakob Rehof, Manuel Fähndrich

January 2001 **ACM SIGPLAN Notices , Proceedings of the 28th ACM symposium on Principles of programming language**

Full text available: [pdf\(1.23 MB\)](#) Additional Information: [full citation](#), [terms](#)

We present a novel approach to scalable implementation of type-based flow analysis for polymorphic subtyping. Using a new presentation of polymorphic subtyping constraints, we are able to apply context-free language (CFL) reachability flow analysis. We develop a CFL-based algorithm for computing flow-information (n^3), where n is the size of the typed program. The algorithm subsumes the best previously ...

2 [Scalable context-sensitive flow analysis using instantiation constraints](#)

Manuel Fähndrich, Jakob Rehof, Manuvir Das

May 2000 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN Programming language design and implementation**, Volume 31, Issue 5

Full text available: [pdf\(733.76 KB\)](#) Additional Information: [full citation](#), [citations](#), [index](#)


This paper shows that a type graph (obtained via polymorphic type inference) can be used to compute directional flow paths between functions. These flow paths arise from the polymorphic types and correspond to call-return sequences in first-order flow information can be computed efficiently while considering only path

return sequences, even in the higher-order case. Furthermore, we present
inferring type i ...

3 Progress in Picture Processing: 1969--71

Azriel Rosenfeld


June 1973 **ACM Computing Surveys (CSUR)**, Volume 5 Issue 2

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4 Graph attribution as a specification paradigm

Bowen Alpern, Alan Carle, Barry Rosen, Peter Sweeney, Kenneth Zadeck

November 1988 **Proceedings of the third ACM SIGSOFT/SIGPLAN symposium on Practical software development e**
24 Issue 5 , 2


Full text available:  [pdf\(1.10 MB\)](#) Additional Information: [full citation, citings, index](#)

An interactive software development environment can be viewed as a structure provided that structure is broadly interpreted. The user sees and manipulates various levels of detail. Many of the implications of changes are analyzed user as frequently as the user wishes, without a mode change from edit. To help provide these services in a uniform way that can readily respond

5 Modeling california earthquakes and earth structures

Michael R. Raugh


November 1985 **Communications of the ACM**, Volume 28 Issue 11

Full text available:  [pdf\(5.06 MB\)](#) Additional Information: [full citation, index terms](#)

Seismology has burgeoned into a modern science—force-fed by federal technology for detecting underground nuclear explosions and predicting industry to improve tools for gas and oil exploration. Computers, seismic telemetry, and data reduction have played key roles in this growth.

6 IFIP Congress-62, Munich, Germany, August 27-September 1, 1962


June 1962 **Communications of the ACM**, Volume 5 Issue 6

Full text available:  [pdf\(1.35 MB\)](#) Additional Information: [full citation](#)

7 Graphic update of automated logic diagrams

Richard J. Uhlik

July 1968 **Proceedings of the fifth annual 1968 design automation automation**

Full text available:  [pdf\(1.09 MB\)](#) Additional Information: [full citation](#), [citings](#), [index](#)

The Automated Logic Diagram, or ALD, is a well defined document prepared to specify the design of a machine. 1 The document is coded for computer transcription personnel. Changes or corrections are batched for a master. Because of the number of queues involved, a day or more is normally required for the process. A project was undertaken to investigate the utility of a graphic

8 National opinions from university computing center documentors on interpersonal relationships

Ann White

November 1977 **Proceedings of the 5th annual ACM SIGUCCS conference**


Full text available:  [pdf\(2.27 MB\)](#) Additional Information: [full citation](#), [terms](#)

In this compendium 44 individuals who review or produce computer-related university computing installations, have contributed their opinions on what a "documentor" as well as their philosophy of what a "documentor" should be. The individuals responded to a questionnaire that explored the advantages as a documentor, their techniques for communicating with the people they

9 From Electron Mobility to Logical Structure: A View of Integrated Circuits

Wesley A. Clark

September 1980 **ACM Computing Surveys (CSUR)**, Volume 12 Issue 3

Full text available:  [pdf\(3.29 MB\)](#) Additional Information: [full citation](#), [terms](#)

10 Data mining: Mining the peanut gallery: opinion extraction and semantic product reviews

Kushal Dave, Steve Lawrence, David M. Pennock

May 2003 **Proceedings of the twelfth international conference on data mining**

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KB)index terms

The web contains a wealth of product reviews, but sifting through them an opinion mining tool would process a set of search results for a given product attributes (quality, features, etc.) and aggregating opinions about mixed, good). We begin by identifying the unique properties of this problem for automatically distinguishing between positive and negative reviews. information ...


Keywords: document classification, opinion mining

11 Signal integrity optimization on the pad assignment for high-speed V

Kai-Yuan Chao, D. F. Wong

December 1995 **Proceedings of the 1995 IEEE/ACM international Computer-aided design**

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In this paper, an efficient method is proposed to effectively minimize both noise and crosstalk that are inevitably caused by package inductance in a design of high-speed/high-bandwidth circuits. Due to its efficiency, our method is incorporated into existing circuit floorplanning and placement schemes for chip and packaging. For a set of industrial circuits/packages tested in our experiments, our method achieves ...

Keywords: pad assignment, signal integrity, crosstalk, simultaneous signal floorplanning, packaging

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2 On the practical static checker of semantic run-time errors

Shelekhov, V.I.; Kuksenkov, S.V.;
 Software Engineering Conference, 1999. (APSEC '99)
 Proceedings. Sixth Asia Pacific , 7-10 Dec. 1999
 Pages:434 - 440

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3 An attribute graph grammar for signal flow gra

Adachi, Y.; Kobayashi, S.; Tsuchida, K.; Yaku, T.;

Control Applications, 1999. Proceedings of the 1999 IEE
International Conference on , Volume: 2 , 22-27 Aug. 1

Pages:1549 - 1554 vol. 2

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**4 An incremental flow- and context-sensitive poir
aliasing analysis**

Yur, J.-S.; Ryder, B.G.; Landi, W.A.;

Software Engineering, 1999. Proceedings of the 1999
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2 On the advantages of polar and log-polar mapping for direct estimation of time-to-impact from optic flow

Tistarelli, M.; Sandini, G.;

Pattern Analysis and Machine Intelligence, IEEE Transactions on , Volume: 15 , Issue: 4 , April 1993

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3 **Characterization of electron flow in negative- and positive-polarity linear-induction accelerators**

Rosenthal, S.E.;

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Pages:822 - 830

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4 **Hierarchical motion history images for recognizing human motion**

Davis, J.W.;

Detection and Recognition of Events in Video, 2001. Proceedings. IEEE Workshop on , 8 July 2001

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5 **Visualization of coronary stenosis plotted on nuclear polar images**

Spruijt, H.J.; Wahle, A.; Marques, K.M.J.; Westerhof, N. Heethaar, R.M.; Dijk, W.A.; Dassen, W.R.M.; Visser, F.;

Computers in Cardiology 2001 , 23-26 Sept. 2001

Pages:281 - 284

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6 **Versatile model for power flow control using FA devices**

Ying Xiao; Song, Y.H.; Sun, Y.Z.;

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7 **Internal wave detection and wavelength estimation**

Marghany, M.;

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8 Dynamic scene analysis from the polar form of image flow representations

Urbano, L.; D'Alvano, F.; Lollett, C.; Gonzalez, G.;

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9 Measurement and simulation of high voltage-wi interactions

Cooke, D.L.; Pakula, W.; Davis, V.A.; Mandell, M.J.; Tau M.; Enloe, C.L.;

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10 Direct estimation of time-to-impact from optical flow

Tistarelli, M.; Sandini, G.;

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11 A new relaxation algorithm for power flow

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12 A physicalist approach to first-order analysis of optic flow fields in extrastriate cortical areas

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470) , Volume: 1 , 7-10 Sept. 1999

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industry to improve tools for gas and oil exploration. Computers, seismic
telemetry, and data reduction have played key roles in this growth.

6 IFIP Congress-62, Munich, Germany, August 27-September 1, 1962


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1 Distribution system power flow analysis-a rigid approach

Chen, T.-H.; Chen, M.-S.; Hwang, K.-J.; Kotas, P.; Che E.A.;

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2 Analysis of no converge networks using the load flow program with complex number state variable

Seki, K.;

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3 A rigid approach of generalized power flow analysis for distribution systems

Jiansheng Lei; Youman Deng; Ying He; Boming Zhang;
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Pages:1047 - 1052 vol. 2

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Haja, T.; Behbehani, H.; Yen, F.C.; Lucas, E.A.; Burk, J
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